

ONSITE
 ENVIRONMENTAL
 LABORATORIES, INC.

1D063A.RPT

Analytical Laboratory Report
TRPH

EPA Method 418.1

Date Sampled: 4/18/97, 4/21/97
 Date Received: 4/21/97
 Report Number: 1D063A.RPT
 Lab Number: 1D063

Proj Mgr:
 Client:
 Project:
 Units Soil:
 Units Water:

Rus Purcell
 Kennedy/Jenks
 974002.00
 mg/Kg
 ug/L

Lab ID No.	Field ID No.	Date Extracted	Date Analyzed	TRPH	Dilution Factor	Matrix
1D063-01	2BB-1-26-1	4/21/97	4/21/97	19	1	Soil
1D063-02	2BB-1-26-4	4/21/97	4/21/97	ND	1	Soil
1D063-03	2BB-1-26-18	4/21/97	4/21/97	ND	1	Soil
1D063-04	2BB-1-26-20	4/21/97	4/21/97	ND	1	Soil
1D063-05	2BB-1-26-30	4/21/97	4/21/97	ND	1	Soil
1D063-06	2BB-1-26-40	4/21/97	4/21/97	ND	1	Soil
1D063-07	2BB-1-26-50	4/21/97	4/21/97	45	1	Soil
1D063-08	2BB-1A-1-1	4/21/97	4/21/97	ND	1	Soil
1D063-09	2BB-1A-1-4	4/21/97	4/21/97	ND	1	Soil
1D063-10	2BB-1A-1-10	4/21/97	4/21/97	ND	1	Soil
1D063-11	2BB-1A-1-20	4/21/97	4/21/97	ND	1	Soil
1D063-12	2BB-1A-1-30	4/21/97	4/21/97	ND	1	Soil
1D063-13	2BB-1A-1-40	4/21/97	4/21/97	ND	1	Soil
1D063-14	2BB-1A-1-50	4/21/97	4/21/97	ND	1	Soil
1D063-15	2BB-5-9-1	4/21/97	4/21/97	35	1	Soil
1D063-16	2BB-5-9-4	4/21/97	4/21/97	81	1	Soil
1D063-17	2BB-5-9-10	4/21/97	4/21/97	ND	1	Soil
1D063-18	2BB-5-9-1	4/21/97	4/21/97	110	1	Soil
1D063-19	2BB-5-9-4	4/21/97	4/21/97	33	1	Soil
1D063-20	2BB-5-9-10	4/21/97	4/21/97	ND	1	Soil
1D063-21	2BB-5-48-1	4/21/97	4/21/97	32	1	Soil
1D063-22	2BB-5-48-4	4/21/97	4/21/97	64	1	Soil
1D063-23	2BB-5-48-10	4/21/97	4/21/97	ND	1	Soil

Reporting Limits SOIL mg/Kg	10
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NOTES:

NR - Not Reported
 ND - Analytes not detected at, or above the reporting limit
 mg/Kg - Milligrams per Kilogram (PPM)
 ug/L - Micrograms per Liter (PPB)
 PPM - Pesticide Compliance Limit. Exceeds detection limit unless otherwise noted.
 M - Matrix Effects
 DF - Dilution Factor

PROCEDURE:

TRPH - This analysis was performed using EPA Method 418.1.

CERTIFICATION:

via Department of Health Services (DHS)
 Environmental Laboratory, 3500 Howard Avenue, Fremont, CA 94538 (510) 496-8131

David Voigt
 Laboratory Director

MAY 9 1997

Date



1D063B.RPT

Analytical Laboratory Report
TRPH
EPA Method 418.1

Date Sampled: 4/21/97
Date Received: 4/21/97
Report Number: 1D063B.RPT
Lab Number: 1D063

Proj Mgr:
Client:
Project:
Units Soil:
Units Water:

Rus Purcell
Kennedy/Jenks
974002.00
mg/Kg
ug/L

Lab ID No.	Field ID No.	Date Extracted	Date Analyzed	TRPH	Dilution Factor	Matrix
1D063-24	2BB-1A-2-1	4/21/97	4/21/97	ND	1	Soil
1D063-25	2BB-1A-2-4	4/21/97	4/21/97	ND	1	Soil
1D063-26	2BB-1A-2-10	4/21/97	4/21/97	ND	1	Soil
1D063-27	2BB-1A-2-20	4/21/97	4/21/97	ND	1	Soil
1D063-28	2BB-1A-2-30	4/21/97	4/21/97	ND	1	Soil
1D063-29	2BB-1A-2-40	4/21/97	4/21/97	ND	1	Soil
1D063-30	2BB-1A-2-50	4/21/97	4/21/97	ND	1	Soil
1D063-31	2BB-1A-4-1	4/21/97	4/21/97	ND	1	Soil
1D063-32	2BB-1A-4-4	4/21/97	4/21/97	ND	1	Soil
1D063-33	2BB-1A-4-10	4/21/97	4/21/97	ND	1	Soil
1D063-34	2BB-1A-4-20	4/21/97	4/21/97	ND	1	Soil
1D063-35	2BB-1A-4-30	4/21/97	4/21/97	ND	1	Soil
1D063-36	2BB-1A-4-40	4/21/97	4/21/97	ND	1	Soil
1D063-37	2BB-1A-4-50	4/21/97	4/21/97	ND	1	Soil
1D063-38	2BB-5-47-1	4/21/97	4/21/97	ND	1	Soil
1D063-39	2BB-5-47-4	4/21/97	4/21/97	20	1	Soil
1D063-40	2BB-5-47-10	4/21/97	4/21/97	ND	1	Soil
1D063-41	2BB-5-46-1	4/21/97	4/21/97	ND	1	Soil
1D063-42	2BB-5-45-1	4/21/97	4/21/97	11	1	Soil
1D063-43	2BB-5-45-4	4/21/97	4/21/97	84	1	Soil
1D063-44	2BB-5-45-10	4/21/97	4/21/97	ND	1	Soil
1D063-45	2BB-1A-3-1	4/21/97	4/21/97	ND	1	Soil
1D063-46	2BB-1A-3-4	4/21/97	4/21/97	17	1	Soil

Reporting Limits SOIL mg/Kg	10
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NOTES:

NR - Not requested
ND - Analytes not detected at, or above the reporting limit
mg/kg - Milligrams per kilogram (PPM)
ug/L - Micrograms per liter (PPB)
PQL - Practical Quantitation Limit. Equals detection limit times the dilution factor
M - Matrix effects
DF - Dilution Factor

PROCEDURES:

TRPH - This analysis was performed using EPA Method 418.1

CERTIFICATION:

California Department of Health Services (LAP)
On-site Environmental Laboratories, 5500 Roswell Avenue, Fremont, CA 94538 (510) 490-8571

Gloria Voigt
Laboratory Director

MAY 09 1997

Date



1D063C.RPT

Analytical Laboratory Report

TRPH
EPA Method 418.1

Date Sampled: 4/21/97
Date Received: 4/21/97
Report Number: 1D063C.RPT
Lab Number: 1D063
Date Reported: 4/21/97

Proj Mgr:
Client:
Project:
Units Soil:
Units Water:

Rus Purcell
Kennedy/Jenks
974002.00
mg/Kg
ug/L

Lab ID No.	Field ID No.	Date Extracted	Date Analyzed	TRPH	Dilution Factor	Matrix
1D063-47	2BB-1A-3-10	4/21/97	4/21/97	ND	1	Soil
1D063-48	2BB-1A-3-20	4/21/97	4/21/97	ND	1	Soil
1D063-49	2BB-1A-3-30	4/21/97	4/21/97	ND	1	Soil
1D063-50	2BB-1A-3-40	4/21/97	4/21/97	ND	1	Soil
1D063-51	2BB-1A-3-50	4/21/97	4/21/97	ND	1	Soil
1D063-52	2BB-5-44-1	4/21/97	4/21/97	190	1	Soil
1D063-53	2BB-5-44-4	4/21/97	4/21/97	100	1	Soil
1D063-54	2BB-5-44-10	4/21/97	4/21/97	ND	1	Soil
1D063-55	2BB-5-17-1	4/21/97	4/21/97	4300	100	Soil
1D063-56	2BB-5-17-4	4/21/97	4/21/97	4800	100	Soil
1D063-57	2BB-1A-5-1	4/21/97	4/21/97	ND	1	Soil
1D063-58	2BB-1A-5-4	4/21/97	4/21/97	ND	1	Soil
1D063-59	2BB-1A-5-10	4/21/97	4/21/97	ND	1	Soil
1D063-60	2BB-1A-5-20	4/21/97	4/21/97	ND	1	Soil
1D063-61	2BB-1A-5-30	4/21/97	4/21/97	ND	1	Soil
1D063-62	2BB-1A-5-40	4/21/97	4/21/97	ND	1	Soil
1D063-63	2BB-1A-5-50	4/21/97	4/21/97	ND	1	Soil
1D063-64	2BB-5-18-5	4/21/97	4/21/97	ND	1	Soil
1D063-65	2BB-5-18-10	4/21/97	4/21/97	ND	1	Soil
1D063-66	2BB-5-18-15	4/21/97	4/21/97	ND	1	Soil
1D063-67	2BB-5-18-20	4/21/97	4/21/97	ND	1	Soil
1D063-68	2BB-5-18-25	4/21/97	4/21/97	ND	1	Soil

Reporting Limits SOIL mg/Kg

10

NOTES:

NR - Not requested
ND - Analytes not detected at or above the reporting limit
mg/kg - Milligrams per kilogram (PPM)
ug/L - Micrograms per liter (PPB)
POL - Practical Quantitation Limit - equals detection limit times the dilution factor
M - Matrix effects
DF - Dilution Factor

PROCEDURES

TRPH - This analysis was performed using EPA Method 418.1

CERTIFICATION:

California Department of Health Services (LAP)
Onsite Environmental Laboratories, 5500 Roswell Common, Fremont, CA 94538 (510) 490-8571

Laboratory Director

MAY 09 1997

Date



1D063E.RPT

Analytical Laboratory Report
TPH-E Diesel, TPH-E Motor Oil
EPA Method 8015 Modified

Date Sampled: 4/21/97
Date Received: 4/21/97
Report Number: 1D063E.RPT
Lab Number: 1D063

Proj Mgr: Rus Purcell
Client: Kennedy/Jenks
Project: McDonnell Douglas
Units Soil: mg/Kg

Lab ID No.	Field ID No.	Date Extracted	Date Analyzed	TPH-E Diesel	TPH-E Motor Oil	TPH-E Sur. %	TPH-E DF	Matrix
1D063-07	2BB-1-26-50	4/22/97	4/23/97	ND	ND	108	1	Soil
1D063-15	2BB-5-9-1	4/22/97	4/23/97	ND	ND	90	1	Soil
1D063-16	2BB-5-9-4	4/22/97	4/23/97	ND	27	93	1	Soil
1D063-18	2BB-5-8-1	4/22/97	4/23/97	ND	29	89	1	Soil
1D063-19	2BB-5-8-4	4/22/97	4/23/97	ND	ND	96	1	Soil
1D063-21	2BB-5-48-1	4/22/97	4/23/97	ND	46	88	1	Soil
1D063-22	2BB-5-48-4	4/22/97	4/23/97	ND	50	81	1	Soil
1D063-43	2BB-5-45-4	4/22/97	4/23/97	ND	98*	97	1	Soil
1D063-52	2BB-5-44-1	4/22/97	4/23/97	ND	ND	89	1	Soil
1D063-53	2BB-5-44-4	4/22/97	4/23/97	ND	ND	94	1	Soil
1D063-55	2BB-5-17-1	4/22/97	4/23/97	ND	250	D	5	Soil
1D063-56	2BB-5-17-4	4/22/97	4/23/97	ND	1200*	D	5	Soil
Reporting Limits SOIL mg/Kg				10	10			

NOTES:

NR - Not requested

NC - Not confirmed

ND - Analytes not detected at, or above the reporting limit

Sur. % - Percent surrogate recovery

mg/Kg - Milligrams per kilogram (PPM)

POL - Practical Quantitation Limit Equals detection limit times the dilution factor

D - Surrogate was diluted out

M - Matrix effects

DF - Dilution Factor

* - Sample chromatogram does not match standard chromatogram

TPH-E Diesel - Total petroleum hydrocarbons extractable quantitated as Diesel

TPH-E Motor Oil - Total petroleum hydrocarbons extractable quantitated as Motor Oil

PROCEDURES:

TPH-E - This analysis was performed using EPA Method 8015 Mod

CERTIFICATION:

California Department of Health Services ELAP

Onsite Environmental Laboratories, 5500 Boscell Common, Fremont, CA 94538 (510) 490-8571

Gareth Voigt
Laboratory Director

MAY 09 1997

Date



LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260

Project No: 974002.00

REPORTING UNITS : µg/Kg

DATE ANALYZED	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97
DATE EXTRACTED	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LAB SAMPLE ID	1D063-01	1D063-02	1D063-03	1D063-04	1D063-05	1D063-06	1D063-07
CLIENT SAMPLE ID : 288-	1-26-1	1-26-4	1-26-10	1-26-20	1-26-30	1-26-40	1-26-50
EXTRACTION SOLVENT							
EXTRACTION METHOD							
DILUTION FACTOR	1	1	1	1	1	1	1
COMPOUND	CRDL						
Benzene	5	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND	ND	ND	ND
Bromoform	5	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND
Chloroform	5	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND
Dibromochloromethane	5	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	5	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	5	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)	5	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND
Ethyl benzene	5	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)	5	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	5	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	5	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)	5	ND	ND	ND	ND	ND	ND
m,p-Xylenes	5	ND	ND	ND	ND	ND	ND
o-Xylene	5	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)	5	ND	ND	ND	ND	ND	ND
TPH as gasoline	1000	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-120%	103%	108%	110%	112%	113%
Toluene-d8	50	80%-115%	106%	106%	105%	107%	106%
4-Bromofluorobenzene	50	75%-125%	99%	101%	98%	101%	99%

Notes :

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

M - Matrix effect confirmed

Gareth Voigt

Laboratory Director

MAY 09 1997

Date



LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260

Project No: 974002.00

REPORTING UNITS : µg/Kg

DATE ANALYZED	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97
DATE EXTRACTED	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LAB SAMPLE ID	1D063-08	1D063-09	1D063-10	1D063-11	1D063-12	1D063-13	1D063-14
CLIENT SAMPLE ID : 288-	1A-1-1	1A-1-4	1A-1-10	1A-1-20	1A-1-30	1A-1-40	1A-1-50
EXTRACTION SOLVENT							
EXTRACTION METHOD							
DILUTION FACTOR	1	1	1	1	1	1	1
COMPOUND	CRDL						
Benzene	5	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND	ND	ND	ND
Bromoform	5	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND
Chloroform	5	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND
Dibromochloromethane	5	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	5	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	5	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)	5	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND
Ethyl benzene	5	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)	5	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	5	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	5	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	5	ND	ND	ND	16	ND	ND
Trichlorofluoromethane (Freon 11)	5	ND	ND	ND	ND	ND	ND
m,p-Xylenes	5	ND	ND	ND	ND	ND	ND
o-Xylene	5	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)	5	ND	ND	ND	ND	ND	ND
TPH as gasoline	1000	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-120%	105%	106%	106%	107%	106%
Toluene-d8	50	80%-115%	105%	106%	105%	106%	105%
4-Bromofluorobenzene	50	75%-125%	98%	99%	100%	99%	99%

Notes :

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

M - Matrix effect confirmed

Garth Voigt
Laboratory Director

MAY 09 1997

Date



LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260

Project No: 974002.00

REPORTING UNITS : µg/Kg

DATE ANALYZED	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97
DATE EXTRACTED	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LAB SAMPLE ID	1D063-15	1D063-16	1D063-17	1D063-18	1D063-19	1D063-20	1D063-21
CLIENT SAMPLE ID : 2BB-	5-9-1	5-9-4	5-9-10	5-8-1	5-8-4	5-8-10	5-48-1
EXTRACTION SOLVENT							
EXTRACTION METHOD							
DILUTION FACTOR	1	1	1	1	1	1	1
COMPOUND	CRDL						
Benzene	5	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND	ND	ND	ND
Bromoform	5	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND
Chloroform	5	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND
Dibromochloromethane	5	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	5	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	5	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)	5	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND
Ethyl benzene	5	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)	5	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	5	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	5	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)	5	ND	ND	ND	ND	ND	ND
m,p-Xylenes	5	ND	ND	ND	ND	ND	ND
o-Xylene	5	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)	5	ND	ND	ND	ND	ND	ND
TPH as gasoline	1000	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-120%	114%	111%	111%	109%	109%
Toluene-d8	50	80%-115%	104%	104%	105%	104%	104%
4-Bromofluorobenzene	50	75%-125%	94%	98%	104%	95%	101%

Notes :

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

M - Matrix effect confirmed

Garth Voigt
Laboratory Director

MAY 09 1997

Date



LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260

Project No: 974002.00

REPORTING UNITS : µg/Kg

DATE ANALYZED	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97
DATE EXTRACTED	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LAB SAMPLE ID	1D063-22	1D063-23	1D063-24	1D063-25	1D063-26	1D063-27	1D063-28
CLIENT SAMPLE ID : 2BB-	5-48-4	5-48-10	1A-2-1	1A-2-4	1A-2-10	1A-2-20	1A-2-30
EXTRACTION SOLVENT							
EXTRACTION METHOD							
DILUTION FACTOR	1	1	1	1	1	1	1
COMPOUND	CRDL						
Benzene	5	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND	ND	ND	ND
Bromoform	5	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND
Chloroform	5	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND
Dibromochloromethane	5	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	5	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	5	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)	5	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND
Ethyl benzene	5	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)	5	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	5	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	5	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	5	ND	ND	ND	ND	5 J	ND
Trichlorofluoromethane (Freon 11)	5	ND	ND	ND	ND	ND	ND
m,p-Xylenes	5	ND	ND	ND	ND	ND	ND
o-Xylene	5	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)	5	ND	ND	ND	ND	ND	ND
TPH as gasoline	1000	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-120%	110%	108%	113%	111%	107%
Toluene-d8	50	80%-115%	106%	103%	104%	105%	106%
4-Bromofluorobenzene	50	75%-125%	97%	100%	99%	99%	104%

Notes :

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

J - At or below CRDL

M - Matrix effect confirmed

Garth Voigt

Laboratory Director

MAY 09 1997

Date



LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260

Project No: 974002.00

REPORTING UNITS : µg/Kg

DATE ANALYZED	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97
DATE EXTRACTED	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LAB SAMPLE ID	1D063-29	1D063-30	1D063-31	1D063-32	1D063-33	1D063-34	1D063-35
CLIENT SAMPLE ID : 2BB-	1A-2-40	1A-2-50	1A-4-1	1A-4-4	1A-4-10	1A-4-20	1A-4-30
EXTRACTION SOLVENT							
EXTRACTION METHOD							
DILUTION FACTOR	1	1	1	1	1	1	1
COMPOUND	CRDL						
Benzene	5	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND	ND	ND	ND
Bromoform	5	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND
Chloroform	5	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND
Dibromochloromethane	5	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	5	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	5	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)	5	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND
Ethyl benzene	5	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)	5	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND
1,1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	5	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	5	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)	5	ND	ND	ND	ND	ND	ND
m,p-Xylenes	5	ND	ND	ND	ND	ND	ND
o-Xylene	5	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)	5	ND	ND	ND	ND	ND	ND
TPH as gasoline	1000	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-120%	105%	107%	108%	111%	109%
Toluene-d8	50	80%-115%	106%	104%	104%	106%	106%
4-Bromofluorobenzene	50	75%-125%	101%	98%	96%	98%	97%

Notes :

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

M - Matrix effect confirmed

South Voigt
Laboratory Director

MAY 09 1997

Date



LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260

Project No: 974002.00

REPORTING UNITS : µg/Kg

DATE ANALYZED	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97
DATE EXTRACTED	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LAB SAMPLE ID	1D063-36	1D063-37	1D063-38	1D063-39	1D063-40	1D063-41	1D063-42
CLIENT SAMPLE ID : 288-	1A-4-40	1A-4-50	5-47-1	5-47-4	5-47-10	5-46-1	5-45-1
EXTRACTION SOLVENT							
EXTRACTION METHOD							
DILUTION FACTOR	1	1	1	1	1	1	1
COMPOUND	CRDL						
Benzene	5	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND	ND	ND	ND
Bromoform	5	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND
Chloroform	5	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND
Dibromochloromethane	5	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	5	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	5	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)	5	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND
Ethyl benzene	5	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)	5	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	5	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	5	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	5	ND	ND	ND	ND	ND	7.5
Trichlorofluoromethane (Freon 11)	5	ND	ND	ND	ND	ND	ND
m,p-Xylenes	5	ND	ND	ND	ND	ND	ND
o-Xylene	5	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)	5	ND	ND	ND	ND	ND	ND
TPH as gasoline	1000	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-120%	106%	98%	116%	111%	116%
Toluene-d8	50	80%-115%	105%	105%	101%	107%	107%
4-Bromofluorobenzene	50	75%-125%	97%	96%	94%	96%	98%

Notes :

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

M - Matrix effect confirmed

Gareth Voigt
Laboratory Director

MAY 09 1997

Date



LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260

Project No: 974002.00

REPORTING UNITS : µg/Kg

DATE ANALYZED	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97
DATE EXTRACTED	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LAB SAMPLE ID	1D063-43	1D063-44	1D063-45	1D063-46	1D063-47	1D063-48	1D063-49
CLIENT SAMPLE ID : 2BB-	5-45-4	5-45-10	1A-3-1	1A-3-4	1A-3-10	1A-3-20	1A-3-30
EXTRACTION SOLVENT							
EXTRACTION METHOD							
DILUTION FACTOR	1	1	1	1	1	1	1
COMPOUND	CRDL						
Benzene	5	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND	ND	ND	ND
Bromoform	5	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND
Chloroform	5	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND
Dibromochloromethane	5	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	5	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	5	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)	5	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND
Ethyl benzene	5	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)	5	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	5	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	5	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)	5	ND	ND	ND	ND	ND	ND
m,p-Xylenes	5	ND	ND	ND	ND	ND	ND
o-Xylene	5	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)	5	ND	ND	ND	ND	ND	ND
TPH as gasoline	1000	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-120%	107%	107%	108%	109%	107%
Toluene-d8	50	80%-115%	102%	104%	105%	106%	105%
4-Bromofluorobenzene	50	75%-125%	95%	100%	95%	96%	97%

Notes :

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

M - Matrix effect confirmed

Gareth Voigt
Laboratory Director

MAY 09 1997

Date



LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260

Project No: 974002.00

REPORTING UNITS : µg/Kg

DATE ANALYZED		4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/22/97	4/22/97
DATE EXTRACTED		N/A	N/A	N/A	N/A	N/A	N/A	N/A
LAB SAMPLE ID		1D063-50	1D063-51	1D063-52	1D063-53	1D063-54	1D063-55	1D063-56
CLIENT SAMPLE ID : 2BB-		1A-3-40	1A-3-50	5-44-1	5-44-4	5-44-10	5-17-1	5-17-4
EXTRACTION SOLVENT								
EXTRACTION METHOD								
DILUTION FACTOR		1	1	1	1	1	1	1
COMPOUND	CRDL							
Benzene	5	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND	ND	ND	ND	ND
Bromoform	5	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND
Chloroform	5	ND	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)	5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	5	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)	5	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	5	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)	5	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	5	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	5	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	5	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	5	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)	5	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes	5	ND	ND	ND	ND	ND	ND	ND
o-Xylene	5	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)	5	ND	ND	ND	ND	ND	ND	ND
TPH as gasoline	1000	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-120%	98%	101%	111%	112%	107%	108%
Toluene-d8	50	80%-115%	105%	105%	102%	104%	98%	102%
4-Bromofluorobenzene	50	75%-125%	101%	100%	98%	99%	100%	96%

Notes :

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

M - Matrix effect confirmed

Garth Voigt
Laboratory Director

MAY 09 1997

Date



LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260

Project No: 974002.00

REPORTING UNITS : µg/Kg

DATE ANALYZED	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97
DATE EXTRACTED	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LAB SAMPLE ID	1D063-57	1D063-58	1D063-59	1D063-60	1D063-61	1D063-62	1D063-63
CLIENT SAMPLE ID : 2BB-	1A-5-1	1A-5-4	1A-5-10	1A-5-20	1A-5-30	1A-5-40	1A-5-50
EXTRACTION SOLVENT							
EXTRACTION METHOD							
DILUTION FACTOR	1	1	1	1	1	1	1
COMPOUND	CRDL						
Benzene	5	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND	ND	ND	ND
Bromoform	5	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND
Chloroform	5	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND
Dibromochloromethane	5	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	5	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	5	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)	5	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND
Ethyl benzene	5	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)	5	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	5	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	5	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	5	18	ND	9.5	26	ND	5.3
Trichlorofluoromethane (Freon 11)	5	ND	ND	ND	ND	ND	ND
m,p-Xylenes	5	ND	ND	ND	ND	ND	ND
o-Xylene	5	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)	5	ND	ND	ND	ND	ND	ND
TPH as gasoline	1000	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-120%	110%	106%	108%	108%	96%
Toluene-d8	50	80%-115%	105%	106%	106%	104%	105%
4-Bromofluorobenzene	50	75%-125%	97%	97%	99%	97%	98%

Notes :

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

M - Matrix effect confirmed

Garth Voigt
Laboratory Director

MAY 09 1997

Date



LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260

Project No: 974002.00

REPORTING UNITS : µg/Kg

DATE ANALYZED			4/22/97	4/22/97	4/22/97	4/22/97	4/21/97
DATE EXTRACTED			N/A	N/A	N/A	N/A	N/A
LAB SAMPLE ID			1D063-64	1D063-65	1D063-66	1D063-67	1D063-68
CLIENT SAMPLE ID : 28B-			5-18-6	5-18-10	5-18-15	5-18-20	5-18-25
EXTRACTION SOLVENT							
EXTRACTION METHOD							
DILUTION FACTOR			1	1	1	1	1
COMFOUND		CRDL					
Benzene		5	ND	ND	ND	ND	ND
Bromodichloromethane		5	ND	ND	ND	ND	ND
Bromoform		5	ND	ND	ND	ND	ND
Bromomethane		5	ND	ND	ND	ND	ND
Carbon tetrachloride		5	ND	ND	ND	ND	ND
Chlorobenzene		5	ND	ND	ND	ND	ND
Chloroethane		5	ND	ND	ND	ND	ND
Chloroform		5	ND	ND	ND	ND	ND
Chloromethane		5	ND	ND	ND	ND	ND
Dibromochloromethane		5	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		5	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		5	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		5	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		5	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		5	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		5	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		5	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		5	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		5	ND	ND	ND	ND	ND
1,2-Dichloropropane		5	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		5	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		5	ND	ND	ND	ND	ND
Ethyl benzene		5	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		5	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		5	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		5	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		5	ND	ND	ND	ND	ND
Toluene		5	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		5	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		5	ND	ND	ND	ND	ND
Trichloroethene (TCE)		5	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		5	ND	ND	ND	ND	ND
m,p-Xylenes		5	ND	ND	ND	ND	ND
o-Xylene		5	ND	ND	ND	ND	ND
Vinyl chloride (VC)		5	ND	ND	ND	ND	ND
TPH as gasoline		1000	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-120%	105%	103%	105%	105%	106%
Toluene-d8	50	80%-115%	105%	105%	106%	105%	106%
4-Bromofluorobenzene	50	75%-125%	98%	99%	98%	100%	98%

Notes :

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

M - Matrix effect confirmed

Garth Voigt
Laboratory Director

MAY 09 1997
Date



0422SD.QAC

QC DATA REPORT
TPH-E
EPA Method 8015 Modified

Date Analyzed: 4/22/97, 4/23/97
Date Extracted: 4/22/97
Report Number: 0422SD.QAC
Lab Number: DIESEL: 2BB-6-14-4, 1D062-09
MOTOR OIL: 2BB-1-26-50, 1D063-07

Proj Mgr: Rus Purcell
Client: Kennedy/Jenks
Project: 974002.00
Matrix: Soil
Units: mg/Kg

Parameter	Blank Result mg/Kg	Spike Level mg/Kg	LCS Result mg/Kg	LCS Recov. %	Sample Result mg/Kg	MS Result mg/Kg	MS Recov. %	MSD Result mg/Kg	MSD Recov. %	RPD %
TPH-E diesel	ND	100	105	105	0.0	81.6	82	80.5	81	1.4
TPH-E mo	ND	107	109	102	0.0	115	107	133	124	14.5
surrt %rec dies.	99			95	87		83		86	
urt %rec mo				87	108		90		102	

DEFINITION OF TERMS:

ND - Analytes not detected at, or above the reporting limit
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference $(MS - MSD) / ((MS + MSD) / 2) \times 100$
LCS - Laboratory Control Spike
LCSD - Laboratory Control Spike Duplicate

LABORATORY QC CRITERIA

Parameter	Acceptable % Recoveries		
TPH-E	65%	to	135%
%RPD	0%	to	35%



0421D.QAC

QC DATA REPORT
TRPH
EPA Method 418.1

Date Sampled: 4/21/97
Date Received: 4/21/97
Date Analyzed: 4/21/97
Date Extracted: 4/21/97
Report Number: 0421D.QAC
Lab Number: 2BB-5-18-25. 1D063-68

Proj Mgr: Rus Purcell
Client: Kennedy/Jenks
Project: 974002.00
Matrix: Soil
Units: mg/Kg

Parameter	Blank 1 Result mg/Kg	Blank 2 Result mg/Kg	Spike Level mg/Kg	LCS Result mg/Kg	LCS Recov. %	Sample Result mg/Kg	MS Result mg/Kg	MS Recov. %	MSD Result mg/Kg	MSD Recov. %	RPD %
418.1	ND	ND	25.0	26.0	104	0.0	22.5	90	25.3	101	11.7

DEFINITION OF TERMS:

ND - Analytes not detected at or above the reporting limit
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference $(MS - MSD) / ((MS + MSD) / 2) \times 100$
LCS - Laboratory Control Spike
LCSd - Laboratory Control Spike Duplicate

LABORATORY QC CRITERIA

Parameter	Acceptable % Recoveries		
TRPH	60%	10	140%
%RPD	0%	10	35%



0421C.QAC

QC DATA REPORT
TRPH
EPA Method 418.1

Date Sampled: 4/21/97
Date Received: 4/21/97
Date Analyzed: 4/21/97
Date Extracted: 4/21/97
Report Number: 0421C.QAC
Lab Number: 2BB-1A-3-40. 1D063-50

Proj Mgr: Rus Purcell
Client: Kennedy/Jenks
Project: 974002.00
Matrix: Soil
Units: mg/Kg

Parameter	Blank 1 Result mg/Kg	Blank 2 Result mg/Kg	Spike Level mg/Kg	LCS Result mg/Kg	LCS Recov. %	Sample Result mg/Kg	MS Result mg/Kg	MS Recov. %	MSD Result mg/Kg	MSD Recov. %	RPD %
418.1	ND	ND	25.0	26.7	107	0.0	26.7	107	27.4	110	2.6

DEFINITION OF TERMS:

D - Analytes not detected at, or above the reporting limit
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference $(MS - MSD) / ((MS + MSD)/2) \times 100$
LCS - Laboratory Control Spike
LCSD - Laboratory Control Spike Duplicate

LABORATORY QC CRITERIA

Parameter	Acceptable % Recoveries		
TRPH	60%	to	140%
%RPD	0%	to	35%



0421B.QAC

QC DATA REPORT
TRPH
EPA Method 418.1

Date Sampled: 4/21/97
Date Received: 4/21/97
Date Analyzed: 4/21/97
Date Extracted: 4/21/97
Report Number: 0421B.QAC
Lab Number: 2BB-1A-4-50. 1D063-37

Proj Mgr: Rus Purcell
Client: Kennedy/Jenks
Project: 974002.00
Matrix: Soil
Units: mg/Kg

Parameter	Blank 1 Result mg/Kg	Blank 2 Result mg/Kg	Spike Level mg/Kg	LCS Result mg/Kg	LCS Recov. %	Sample Result mg/Kg	MS Result mg/Kg	MS Recov. %	MSD Result mg/Kg	MSD Recov. %	RPD %
418.1	ND	ND	25.0	26.0	104	0.0	26.3	105	24.6	98	6.7

DEFINITION OF TERMS:

D - Analytes not detected at, or above the reporting limit
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference. $(MS - MSD) / ((MS + MSD) / 2) \times 100$
LCS - Laboratory Control Spike
LCSD - Laboratory Control Spike Duplicate

LABORATORY QC CRITERIA

Parameter	Acceptable % Recoveries		
TRPH	60%	to	140%
%RPD	0%	to	35%



0421A.QAC

QC DATA REPORT
TRPH
EPA Method 418.1

Date Sampled: 4/18/97
Date Received: 4/21/97
Date Analyzed: 4/21/97
Date Extracted: 4/21/97
Report Number: 0421A.QAC
Lab Number: 2BB-1A-1-50, 1D063-14

Proj Mgr: Rus Purcell
Client: Kennedy/Jenks
Project: 974002.00
Matrix: Soil
Units: mg/Kg

Parameter	Blank 1 Result mg/Kg	Blank 2 Result mg/Kg	Spike Level mg/Kg	LCS Result mg/Kg	LCS Recov. %	Sample Result mg/Kg	MS Result mg/Kg	MS Recov. %	MSD Result mg/Kg	MSD Recov. %	RPD %
418.1	ND	ND	25.0	24.6	98	0.0	25.3	101	22.5	90	11.7

DEFINITION OF TERMS:

D - Analytes not detected at, or above the reporting limit
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference $(MS - MSD) / ((MS + MSD) / 2) \times 100$
LCS - Laboratory Control Spike
LCSD - Laboratory Control Spike Duplicate

LABORATORY QC CRITERIA

Parameter	Acceptable % Recoveries		
TRPH	60%	to	140%
%RPD	0%	to	35%



LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260

Project No: 974002.00

REPORTING UNITS : $\mu\text{g/L}$ - LCS
 $\mu\text{g/Kg}$ - MB

DATE PERFORMED: 4/21/97

SUPPLY SOURCE: Absolut Standards, Inc.

LAB LCS ID: LCS 4/21 #1 MS2

LOT NUMBER: 012095(gases), 051596(liq.)

DATE OF SOURCE: 3/14/97

ANALYTE	MB 4/21 #1	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	ND	25	26.3	105%	85%-115%
Bromodichloromethane	ND	25	25.3	101%	85%-115%
Bromoform	ND	25	25.2	101%	85%-115%
Bromomethane	ND	25	21.4	86%	85%-115%
Carbon tetrachloride	ND	25	24.7	99%	85%-115%
Chlorobenzene	ND	25	25.8	103%	85%-115%
Chloroethane	ND	25	26.6	106%	85%-115%
Chloroform	ND	25	26.3	105%	85%-115%
Chloromethane	ND	25	26.5	106%	85%-115%
Dibromochloromethane	ND	25	24.9	100%	85%-115%
1,2-Dichlorobenzene	ND	25	26.2	105%	85%-115%
1,3-Dichlorobenzene	ND	25	25.7	103%	85%-115%
1,4-Dichlorobenzene	ND	25	25.6	102%	85%-115%
Dichlorodifluoromethane (Freon 12)	ND	25	27.0	108%	85%-115%
1,1-Dichloroethane (1,1-DCA)	ND	25	27.2	109%	85%-115%
1,2-Dichloroethane (1,2-DCA)	ND	25	25.1	100%	85%-115%
1,1-Dichloroethene (1,1-DCE)	ND	25	27.5	110%	85%-115%
cis-1,2-Dichloroethene (c-1,2-DCE)	ND	25	27.5	110%	85%-115%
trans-1,2-Dichloroethene (t-1,2-DCE)	ND	25	27.0	108%	85%-115%
1,2-Dichloropropane	ND	25	26.6	106%	85%-115%
cis-1,3-Dichloropropene	ND	25	25.9	104%	85%-115%
trans-1,3-Dichloropropene	ND	25	25.5	102%	85%-115%
Ethyl benzene	ND	25	25.9	104%	85%-115%
Methylene chloride (Dichloromethane)	ND	25	27.7	111%	85%-115%
1,1,1,2-Tetrachloroethane	ND	25	25.1	100%	85%-115%
1,1,2,2-Tetrachloroethane	ND	25	27.3	109%	85%-115%
Tetrachloroethene (PCE)	ND	25	24.4	98%	85%-115%
Toluene	ND	25	26.0	104%	85%-115%
1,1,1-Trichloroethane (1,1,1-TCA)	ND	25	25.7	103%	85%-115%
1,1,2-Trichloroethane (1,1,2-TCA)	ND	25	26.1	104%	85%-115%
Trichloroethene (TCE)	ND	25	25.3	101%	85%-115%
Trichlorofluoromethane (Freon 11)	ND	25	21.2	85%	85%-115%
m,p-Xylenes	ND	50	52.4	105%	85%-115%
o-Xylene	ND	25	26.0	104%	85%-115%
Vinyl chloride (VC)	ND	25	21.6	86%	85%-115%
SURROGATE	SPK conc	%RC		%RC	
Dibromofluoromethane	50	108%		108%	
Toluene-d8	50	108%		106%	
4-Bromofluorobenzene	50	99%		99%	

Notes :

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

Garth Voigt
Laboratory Director

MAY 09 1997

Date

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260

Project No: 974002.00

REPORTING UNITS : $\mu\text{g/L}$ - LCS $\mu\text{g/Kg}$ - MB

DATE PERFORMED: 4/21/97

SUPPLY SOURCE: Absolute Standards, Inc.

LAB LCS ID: LCS 4/21 #2 MS2

LOT NUMBER: 012095(gases), 051596(liq.)

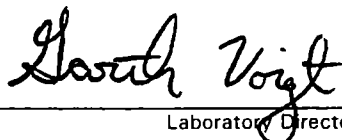
DATE OF SOURCE: 3/14/97

ANALYTE	MB 4/21 #2	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	ND	25	25.9	104%	85%-115%
Bromodichloromethane	ND	25	25.5	102%	85%-115%
Bromoform	ND	25	27.4	110%	85%-115%
Bromomethane	ND	25	20.3	81%	85%-115%
Carbon tetrachloride	ND	25	24.9	100%	85%-115%
Chlorobenzene	ND	25	26.7	107%	85%-115%
Chloroethane	ND	25	26.0	104%	85%-115%
Chloroform	ND	25	26.6	106%	85%-115%
Chloromethane	ND	25	22.8	91%	85%-115%
Dibromochloromethane	ND	25	26.8	107%	85%-115%
1,2-Dichlorobenzene	ND	25	27.1	108%	85%-115%
1,3-Dichlorobenzene	ND	25	26.7	107%	85%-115%
1,4-Dichlorobenzene	ND	25	26.3	105%	85%-115%
Dichlorodifluoromethane (Freon 12)	ND	25	26.6	106%	85%-115%
1,1-Dichloroethane (1,1-DCA)	ND	25	27.3	109%	85%-115%
1,2-Dichloroethane (1,2-DCA)	ND	25	26.6	106%	85%-115%
1,1-Dichloroethene (1,1-DCE)	ND	25	26.8	107%	85%-115%
cis-1,2-Dichloroethene (c-1,2-DCE)	ND	25	27.0	108%	85%-115%
trans-1,2-Dichloroethene (t-1,2-DCE)	ND	25	27.0	108%	85%-115%
1,2-Dichloropropane	ND	25	26.9	108%	85%-115%
cis-1,3-Dichloropropene	ND	25	25.1	100%	85%-115%
trans-1,3-Dichloropropene	ND	25	25.7	103%	85%-115%
Ethyl benzene	ND	25	26.6	106%	85%-115%
Methylene chloride (Dichloromethane)	ND	25	27.5	110%	85%-115%
1,1,1,2-Tetrachloroethane	ND	25	26.3	105%	85%-115%
1,1,2,2-Tetrachloroethane	ND	25	29.9	120%	85%-115%
Tetrachloroethene (PCE)	ND	25	25.3	101%	85%-115%
Toluene	ND	25	25.9	104%	85%-115%
1,1,1-Trichloroethane (1,1,1-TCA)	ND	25	25.5	102%	85%-115%
1,1,2-Trichloroethane (1,1,2-TCA)	ND	25	26.8	107%	85%-115%
Trichloroethene (TCE)	ND	25	25.0	100%	85%-115%
Trichlorofluoromethane (Freon 11)	ND	25	18.7	75%	85%-115%
m,p-Xylenes	ND	50	54.8	110%	85%-115%
o-Xylene	ND	25	27.2	109%	85%-115%
Vinyl chloride (VC)	ND	25	19.3	77%	85%-115%
SURROGATE	SPK conc	%RC		%RC	
Dibromofluoromethane	50	111%		107%	
Toluene-d8	50	105%		104%	
4-Bromofluorobenzene	50	101%		103%	

Notes :

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample



Laboratory Director

MAY 09 1997

Date



Project No: 974002.00

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260

REPORTING UNITS : µg/Kg

DATE PERFORMED: 4/21/97
 BATCH #: 0421-1
 LAB SAMPLE ID #: 1D063-27

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
Benzene	ND	125	121	97%	125	124	99%	2%	70%-130%	20
Chlorobenzene	ND	125	121	97%	125	127	101%	4%	70%-130%	20
Chloroform	ND	125	127	101%	125	131	105%	4%	70%-130%	20
1,1-Dichloroethane (1,1-DCA)	ND	125	134	107%	125	142	114%	6%	70%-130%	20
1,2-Dichloroethane (1,2-DCA)	ND	125	129	103%	125	131	105%	2%	70%-130%	20
1,1-Dichloroethene (1,1-DCE)	ND	125	132	106%	125	139	112%	5%	70%-130%	20
Tetrachloroethene (PCE)	ND	125	204	163%	125	217	173%	6%	70%-130%	20
Toluene	ND	125	121	97%	125	127	101%	4%	70%-130%	20
Trichloroethene (TCE)	5.0	125	143	110%	125	155	120%	8%	70%-130%	20
SURROGATE	SPK conc	%RC		%RC		%RC				
Dibromofluoromethane	50	110%		108%		107%				
Toluene-d8	50	104%		107%		105%				
4-Bromofluorobenzene	50	100%		103%		103%				

Notes :

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

M - Matrix effect confirmed

David Voigt
 Laboratory Director

MAY 09 1997

Date



LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260

Project No: 974002.00

REPORTING UNITS : $\mu\text{g/L}$ - LCS
 $\mu\text{g/Kg}$ - MB

DATE PERFORMED: 4/21/97

SUPPLY SOURCE: Absolute Standards, Inc.

LAB LCS ID: LCS 4/21 #1 MS3

LOT NUMBER: 012095(gases), 051596(liq.)

DATE OF SOURCE: 3/14/97

ANALYTE	MB 4/21 #1	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	ND	25	26.3	105%	85%-115%
Bromodichloromethane	ND	25	25.2	101%	85%-115%
Bromoform	ND	25	21.6	86%	85%-115%
Bromomethane	ND	25	20.2	81%	85%-115%
Carbon tetrachloride	ND	25	25.1	100%	85%-115%
Chlorobenzene	ND	25	25.1	101%	85%-115%
Chloroethane	ND	25	25.8	103%	85%-115%
Chloroform	ND	25	27.2	109%	85%-115%
Chloromethane	ND	25	25.1	100%	85%-115%
Dibromochloromethane	ND	25	24.0	96%	85%-115%
1,2-Dichlorobenzene	ND	25	25.6	102%	85%-115%
1,3-Dichlorobenzene	ND	25	25.6	102%	85%-115%
1,4-Dichlorobenzene	ND	25	25.4	101%	85%-115%
Dichlorodifluoromethane (Freon 12)	ND	25	22.7	91%	85%-115%
1,1-Dichloroethane (1,1-DCA)	ND	25	28.4	114%	85%-115%
1,2-Dichloroethane (1,2-DCA)	ND	25	26.2	105%	85%-115%
1,1-Dichloroethene (1,1-DCE)	ND	25	26.6	106%	85%-115%
cis-1,2-Dichloroethene (c-1,2-DCE)	ND	25	26.4	106%	85%-115%
trans-1,2-Dichloroethene (t-1,2-DCE)	ND	25	26.9	107%	85%-115%
1,2-Dichloropropane	ND	25	26.1	104%	85%-115%
cis-1,3-Dichloropropene	ND	25	25.9	103%	85%-115%
trans-1,3-Dichloropropene	ND	25	25.9	104%	85%-115%
Ethyl benzene	ND	25	25.2	101%	85%-115%
Methylene chloride (Dichloromethane)	ND	25	26.4	105%	85%-115%
1,1,1,2-Tetrachloroethane	ND	25	23.1	93%	85%-115%
1,1,2,2-Tetrachloroethane	ND	25	27.0	108%	85%-115%
Tetrachloroethene (PCE)	ND	25	23.3	93%	85%-115%
Toluene	ND	25	25.6	102%	85%-115%
1,1,1-Trichloroethane (1,1,1-TCA)	ND	25	27.4	110%	85%-115%
1,1,2-Trichloroethane (1,1,2-TCA)	ND	25	24.6	98%	85%-115%
Trichloroethene (TCE)	ND	25	24.9	99%	85%-115%
Trichlorofluoromethane (Freon 11)	ND	25	23.9	95%	85%-115%
m,p-Xylenes	ND	50	51.5	103%	85%-115%
o-Xylene	ND	25	26.1	104%	85%-115%
Vinyl chloride (VC)	ND	25	22.4	90%	85%-115%
SURROGATE	SPK conc	%RC	%RC		
Dibromofluoromethane	50	107%	106%		
Toluene-d8	50	104%	105%		
4-Bromofluorobenzene	50	99%	100%		

Notes :

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

Laboratory Director

MAY 09 1997

Date



LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260

Project No: 974002.00

REPORTING UNITS : $\mu\text{g/L}$ - LCS
 $\mu\text{g/Kg}$ - MB

DATE PERFORMED: 4/21/97

SUPPLY SOURCE: Absolute Standards, Inc.

LAB LCS ID: LCS 4/21 #2 MS3

LOT NUMBER: 012095(gases), 051596(liq.)

DATE OF SOURCE: 3/14/97

ANALYTE	MB 4/21 #2	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	ND	25	27.4	110%	85%-115%
Bromodichloromethane	ND	25	26.6	106%	85%-115%
Bromoform	ND	25	23.0	92%	85%-115%
Bromomethane	ND	25	20.2	81%	85%-115%
Carbon tetrachloride	ND	25	26.3	105%	85%-115%
Chlorobenzene	ND	25	26.2	105%	85%-115%
Chloroethane	ND	25	26.1	104%	85%-115%
Chloroform	ND	25	28.3	113%	85%-115%
Chloromethane	ND	25	24.0	96%	85%-115%
Dibromochloromethane	ND	25	25.1	101%	85%-115%
1,2-Dichlorobenzene	ND	25	27.1	108%	85%-115%
1,3-Dichlorobenzene	ND	25	27.0	108%	85%-115%
1,4-Dichlorobenzene	ND	25	26.8	107%	85%-115%
Dichlorodifluoromethane (Freon 12)	ND	25	22.6	91%	85%-115%
1,1-Dichloroethane (1,1-DCA)	ND	25	29.7	119%	85%-115%
1,2-Dichloroethane (1,2-DCA)	ND	25	28.6	114%	85%-115%
1,1-Dichloroethene (1,1-DCE)	ND	25	28.0	112%	85%-115%
cis-1,2-Dichloroethene (c-1,2-DCE)	ND	25	27.7	111%	85%-115%
trans-1,2-Dichloroethene (t-1,2-DCE)	ND	25	27.6	110%	85%-115%
1,2-Dichloropropane	ND	25	27.9	112%	85%-115%
cis-1,3-Dichloropropene	ND	25	27.7	111%	85%-115%
trans-1,3-Dichloropropene	ND	25	27.7	111%	85%-115%
Ethyl benzene	ND	25	24.3	97%	85%-115%
Methylene chloride (Dichloromethane)	ND	25	27.5	110%	85%-115%
1,1,1,2-Tetrachloroethane	ND	25	24.1	97%	85%-115%
1,1,2,2-Tetrachloroethane	ND	25	29.8	119%	85%-115%
Tetrachloroethene (PCE)	ND	25	23.2	93%	85%-115%
Toluene	ND	25	26.3	105%	85%-115%
1,1,1-Trichloroethane (1,1,1-TCA)	ND	25	29.0	116%	85%-115%
1,1,2-Trichloroethane (1,1,2-TCA)	ND	25	26.7	107%	85%-115%
Trichloroethene (TCE)	ND	25	26.1	104%	85%-115%
Trichlorofluoromethane (Freon 11)	ND	25	20.5	82%	85%-115%
m,p-Xylenes	ND	50	51.2	102%	85%-115%
o-Xylene	ND	25	26.4	105%	85%-115%
Vinyl chloride (VC)	ND	25	21.6	86%	85%-115%
SURROGATE	SPK conc	%RC		%RG	
Dibromofluoromethane	50	107%		107%	
Toluene-d8	50	105%		106%	
4-Bromofluorobenzene	50	99%		100%	

Notes :

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

Gareth Voigt
Laboratory Director

MAY 09 1997

Date



Project No: 974002.00

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260

REPORTING UNITS : $\mu\text{g/Kg}$

DATE PERFORMED: 4/21/97
 BATCH #: 0421-2
 LAB SAMPLE ID #: 1D063-34

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
Benzene	ND	125	137	109%	125	138	110%	1%	70%-130%	20
Chlorobenzene	ND	125	120	96%	125	120	96%	0%	70%-130%	20
Chloroform	ND	125	145	116%	125	146	117%	1%	70%-130%	20
1,1-Dichloroethane (1,1-DCA)	ND	125	160	128%	125	161	129%	1%	70%-130%	20
1,2-Dichloroethane (1,2-DCA)	ND	125	145	116%	125	150	120%	4%	70%-130%	20
1,1-Dichloroethene (1,1-DCE)	ND	125	144	116%	125	145	116%	0%	70%-130%	20
Tetrachloroethene (PCE)	ND	125	169	135%	125	175	140%	3%	70%-130%	20
Toluene	ND	125	130	104%	125	131	105%	1%	70%-130%	20
Trichloroethene (TCE)	ND	125	129	103%	125	133	106%	3%	70%-130%	20
SURROGATE	SPK conc	%RC		%RC		%RC				
Dibromofluoromethane	50	110%		109%		109%				
Toluene-d8	50	106%		107%		106%				
4-Bromofluorobenzene	50	98%		96%		97%				

Notes :

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

M - Matrix effect confirmed

David Voigt
 Laboratory Director

MAY 09 1997

Date



Project No: 974002.00

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260

REPORTING UNITS : µg/Kg

DATE PERFORMED: 4/21/97
BATCH #: 0421-4
LAB SAMPLE ID #: 1D063-68

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
Benzene	ND	125	126	101%	125	137	110%	8%	70%-130%	20
Chlorobenzene	ND	125	112	89%	125	121	97%	8%	70%-130%	20
Chloroform	ND	125	138	111%	125	147	118%	6%	70%-130%	20
1,1-Dichloroethane (1,1-DCA)	ND	125	151	120%	125	161	129%	7%	70%-130%	20
1,2-Dichloroethane (1,2-DCA)	ND	125	141	113%	125	151	121%	7%	70%-130%	20
1,1-Dichloroethene (1,1-DCE)	ND	125	136	109%	125	147	117%	8%	70%-130%	20
Tetrachloroethene (PCE)	ND	125	176	141%	125	189	151%	7%	70%-130%	20
Toluene	ND	125	121	97%	125	131	105%	8%	70%-130%	20
Trichloroethene (TCE)	ND	125	141	113%	125	150	120%	6%	70%-130%	20
SURROGATE	SPK conc	%RC		%RC		%RC				
Dibromofluoromethane	50	106%		106%		105%				
Toluene-d8	50	106%		106%		105%				
4-Bromofluorobenzene	50	98%		99%		97%				

Notes :

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

M - Matrix effect confirmed

Laboratory Director

MAY 09 1997

Date



Daily Project Report

(To be kept with the daily project data files)

Project: Kennedy/Senks DAC

Date: 4/21/97

ONSITE Analysts/Technicians: MY, NW, SW, LT

Project Status (Circle One): Analyze Samples Standby Mob/Demob

Normal Hours and Overtime Hours Worked:

Normal Hours 10
Overtime Hours 2
Reason for Overtime

Sample Volume and Matrix

Samples Received and Matrix

68 soils for 8260 (8010/8020 list)
418.1

Time Last Samples Received

Client Issues Raised:

ONSITE Action Plan:

CHAIN OF CUSTODY RECO D ANALYSIS REQUEST

5500 Boscell Common Fremont, CA 94530 Tel. (510) 490-8571 Fax. (510) 490-8572

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

Project Manager: **RJ's Purcell**
Client Name: **RAC**
Address:
City, State ZIP
Phone:
Fax:

Bill to:
Company: **Kennedy/Senks**
Address: **2151 Michelson Dr Suite 100**
City, State ZIP: **Irvine CA. 92612**
Phone: **714-261-1577**
Fax:

Date: **4-18-97**
Page: **15** of
Laboratory:
Lab Number:

Project Name: **DAC**
Project Number: **974002.00**

P.O. No.:

Analysis Requested

Sample Identification	Date Sampled	Time Sampled	Matrix	Sampled & Relinquished By:	Time Relinquished:	Received By:	Lab ID	BTEX (8021)	TPH - Gas (8015M)	TPH - Diesel (8015M)	No. Containers	Remarks
2BB-1-26-1	4-18-97	1320	Soil	<i>[Signature]</i>	7:30	MY	10063-01				1	
2BB-1-26-4	"	1325	"	"			-02				1	
2BB-1-26-10	"	1330	"	"			03				1	
2BB-1-26-20	"	1335	"	"			04				1	
2BB-1-26-30	"	1345	"	"			05				1	
2BB-1-26-40	"	1355	"	"			06				1	
2BB-1-26-50	"	1405	"	"			07				1	
2BB-1A-1-1	"	1515	"	"			08				1	
2BB-1A-1-4	"	1520	"	"			09				1	
2BB-1A-1-10	"	1525	"	"			10				1	
2BB-1A-1-20	"	1535	"	"			11				1	
2BB-1A-1-30	"	1545	"	"			12				1	
2BB-1A-1-40	"	1550	"	"			13				1	
2BB-1A-1-50	"	1555	"	"			14				1	

Initials:	Printed Name:	Signature:	Date:
<i>[Signature]</i> MY	Stacy Scrimshire	<i>[Signature]</i>	Start Time:
	Michael Scrimsky	<i>[Signature]</i>	Stop Time:
			Hours:
			Client Sign-off:

Total Containers:	
Received Intact:	
Received Cold:	
Custody Seals:	

White Copy - Admin/Lab Yellow - Mobile Lab Pink - Client

...D ANALYSIS REQUEST

55500 Boscell Common Fremont, CA 94538 Tel. (510) 490-8571 Fax. (510) 490-8572



Project Manager:	Rus Purcell
Client Name:	Kennedy/Trends
Address:	2151 Michelson Dr., Ste 100
City, State ZIP	Irvine, CA 92612
Phone:	714-261-1577
Fax:	261-2134

Bill to:	
Company:	
Address:	
City, State ZIP	
Phone:	
Fax:	

Date:	4-21-97
Page:	2 of
Laboratory:	
Lab Number:	

Project Name:	Douglas Aircraft
Project Number:	974002.00

P.O. No.:	
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Analysis Requested

[illegible]

Initials:	Printed Name:	Signature:	Date:
JK	Jay Knight	<i>Jay Knight</i>	
my	Michael Yurovsky	<i>Michael Yurovsky</i>	
			Start Time:
			Stop Time:
			Hours:
			Client Sign-off:

Total Containers:	
Received Intact:	
Received Cold:	
Custody Seals:	

White Copy - Admin/Lab Yellow - Mobile Lab Pink - Client



Analysis Request and of Custody Record

ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532
Tustin, CA 92780
(714) 832-0064, Fax (714) 832-0067

4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(602) 736-0960 Fax (602) 736-0970

Lab Job No: _____ of _____
Page 1 of 1

REQUIRED TAT: _____

CUSTOMER INFORMATION				PROJECT INFORMATION				ANALYSIS/METHOD REQUEST		REMARKS/PRECAUTIONS	
COMPANY:	PROJECT NAME	NUMBER:	LOCATION:	ADDRESS:	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE		PRES.
SEND REPORT TO:											
ADDRESS:											
PHONE:											
FAX:											
SAMPLED BY:	DMS										
SAMPLE ID	2BB-1A-2-1	1	4/21/97	0840	Soil	Bag					
	-4	1		0845							
	-10	1		0850							
	-20	1		0900							
	-30	1		0905							
	-40	1		0910							
	-50	1		0920							
	236-1A-4-1	1		1030							
	-4	1		1035							
	-10	1		1045							
	-20	1		1055							
	-30	1		1100							
	-40	1		1105							
	-50	1									
Total No. of Samples:				Method of Shipment:							
Relinquished By: <i>Dede M. Self</i>				Received By: <i>Michael J. Jansky</i>				Date/Time: 4/21/97 1155			
Relinquished By:				Received By:				Date/Time:			
Relinquished By:				Received For Lab By:				Date/Time:			

Reporting Format: (check)	NORMAL	S.D. HMMD
Sample Integrity: (check)	intact	on ice

CHAIN OF CUSTODY RECO

ANALYSIS REQUEST

5500 Boscell Common Fremont, CA 94530 Tel. (510) 490-8571 Fax (510) 490-8572

ONSITE
 ENVIRONMENTAL
 LABORATORIES, INC.

Project Manager:	Russ Furell
Client Name:	Kennedy Jenks
Address:	261 Michelson, Ste. 100
City, State ZIP	Irvine, CA 92612
Phone:	714-261-1577
Fax:	2134

Bill to:	
Company:	
Address:	
City, State ZIP	
Phone:	
Fax:	

Date:	4-21-97
Page:	2 of
Laboratory:	
Lab Number:	

Project Name:	Bonglas Aircraft
Project Number:	974002.00

P.O. No.:	
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Analysis Requested

Sample Identification	Date Sampled	Time Sampled	Matrix	Sampled & Relinquished By:	Time Relinquished:	Received By:	Lab ID	BTEX (8021)	TPH - Gas (8015M)	TPH - Diesel (8015M)	No. Containers	Remarks
2BB-S-47-1	4-21-97	1032	soil	JK	13:30	MV	1D063-38		X	X	1	418.1 8010/8020
2BB-S-47-4	"	1037	"	"	"		39		X	X	1	
2BB-S-47-10	"	1043	"	"	"		40		X	X	1	
2BB-S-46-1	"	1113	"	"	"		41		X	X	1	
2BB-S-45-1	"	1249	"	"	"		42		X	X	1	
2BB-S-45-4	"	1253	"	"	"		43		X	X	1	
2BB-S-45-10	"	1300	"	"	"		44		X	X	1	
2BB-A-3-1	"	1245	"	"	1340		45		X	X	1	
2BB-A-3-4	"	1250	"	"	"		46		X	X	1	
2BB-A-3-10	"	1255	"	"	"		47		X	X	1	
2BB-A-3-20	"	1305	"	"	"		48		X	X	1	
2BB-A-3-30	"	1310	"	"	"		49		X	X	1	
2BB-A-3-40	"	1320	"	"	"		50		X	X	1	
2BB-A-3-50	"	1330	"	"	"		51		X	X	1	

Initials:	Printed Name:	Signature:	Date:
JK	Jay Knight	<i>Jay Knight</i>	Start Time:
MV	Michael Surovsky	<i>Michael Surovsky</i>	Stop Time:
			Hours:
			Client Sign-off:

Total Containers:	
Received Intact:	
Received Cold:	
Custody Seals:	

White Copy - Admin/Lab Yellow - Mobile Lab Pink - Client

CHAIN OF CUSTODY RECC

ANALYSIS REQUEST

5500 Boscell Common Fremont, CA 94538 Tel. (510) 490-8571 Fax. (510) 490-8572

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

Project Manager:	Ros Purcell
Client Name:	DAC
Address:	
City, State ZIP	
Phone:	
Fax:	

Bill to:	
Company:	Kennedy / Jenks
Address:	2151 Michelson Dr. Suite 100
City, State ZIP	Irving CA. 92612
Phone:	714-261-1577
Fax:	



Date:	4-21-97
Page:	of
Laboratory:	
Lab Number:	

Project Name:	DAC
Project Number:	974002.00

P.O. No.:	
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Analysis Requested

Sample Identification	Date Sampled	Time Sampled	Matrix	Sampled & Relinquished By:	Time Relinquished:	Received By:	Lab ID	BTEX (8021)	TPH - Gas (8015M)	TPH - Diesel (8015M)	No. Containers	Remarks
2BB-5-44-1	4-21-97	1327	Soil	SS	1510	MY	10063 52				1	
2BB-5-44-4	"	1332	"	SS	"		53				1	
2BB-5-44-10	"	1338	"	SS	"		54				1	
2BB-5-17-1	"	1400	"	SS	"		55				1	
2BB-5-17-4	"	1437	"	SS	"		56				1	
2BB-1A-5-1	"	1430	"	SS	1540		57				1	
2BB-1A-5-4	"	1435	"	SS	"		58				1	
2BB-1A-5-10	"	1445	"	SS	"		59				1	
2BB-1A-5-20	"	1455	"	SS	"		60				1	
2BB-1A-5-30	"	1500	"	SS	"		61				1	
2BB-1A-5-40	"	1505	"	SS	"		62				1	
2BB-1A-5-50	"	1515	"	SS	"		63				1	

Initials:	Printed Name:	Signature:	Date:
SS	Shane Scrimshire		Start Time:
MY	Michael Yarovsky		Stop Time:
			Hours:
			Client Sign-off:

Total Containers:	
Received Intact:	
Received Cold:	
Custody Seals:	

White Copy - Admin/Lab Yellow - Mobile Lab Pink - Client

ANALYSIS REQUEST

510) 490-8571 Fax. (510) 490-8572

Date:	4-21-97
Page:	of
Laboratory:	
Lab Number:	

Project Manager:	Rus Purcell
Client Name:	DAC
Address:	
City, State ZIP	
Phone:	
Fax:	



Bill to:	
Company:	Kennedy / Jenks
Address:	2151 Michelson Dr. Suite 100
City, State ZIP	Irvine CA. 92618
Phone:	714-261-1577
Fax:	

Project Name:	DAC
Project Number:	974002.00

P.O. No.:	
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Analysis Requested

[illegible]

Initials:	Printed Name:	Signature:	Date:
SSS	Steve Scrimshire		Start Time:
MY	Michael Yurovsky		Stop Time:
			Hours:
			Client Sign-off:

Total Containers:	
Received Intact:	
Received Cold:	
Custody Seals:	

White Copy - Admin/Lab Yellow - Mobile Lab Pink - Client	
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